AMENDMENTS TO THE CLAIMS

- 1. (Canceled)
- 2. (Currently Amended) The noise controller of claim 6 7, further comprising:
- a signal amplifying part amplifying said noise signal from said sensor part;
- a first low pass filter filtering said amplified noise signal from said signal amplifying part and outputting a filtered noise signal to said phase perceiving part and said micro computer part;
- a second low pass filter filtering said noise control signal from said micro computer part;

an electric power amplifying part amplifying a filtered noise control signal from said second low pass filter; and

an output part outputting an amplified filtered noise control signal from said electric power amplifying part.

- **3**. (Currently Amended) The noise controller of claim **6 7**, wherein said micro computer includes an index table.
- **4**. (Currently Amended) The noise controller of claim **6 7**, wherein said micro computer includes a neural net.

- 5. (Currently Amended) The noise controller of claim 6 7, wherein said micro computer includes a control rule controlling part (CRCP) generating said noise control signal to minimize said residual noise signal.
 - **6**. (Canceled)
- 7. (Previously Presented) A noise controller for actively controlling noise, the controller comprising:
- a sensor part perceiving a noise and outputting a noise signal corresponding to said noise;
- a phase perceiving part perceiving a phase of said noise signal and outputting a phase signal, said phase perceiving part including a transformer transforming said noise signal, a full-wave rectifier rectifying a transformed noise signal from said transformer, a pressure-sensitive circuit converting a fully rectified signal from said full-wave rectifier, and a bandpass filter bandpass filtering a converted signal from said pressure-sensitive circuit; and
- a micro computer part generating a noise control signal based on a residual noise signal and an error variation signal.

8-10. (Canceled)

11. (Currently Amended) The method of claim 15 16, further comprising:

amplifying said noise signal;

low pass filtering said amplified noise signal;
low pass filtering said noise control signal;
power amplifying said filtered noise control signal; and
outputting said power amplified filtered noise control signal.

- 12. (Canceled)
- 13. (Currently Amended) The method of claim 15 16, wherein said residual noise signal and said error variation signal are generated through the use of a neural net.
- 14. (Currently Amended) The method of claim 15 16, wherein said noise control signal is generated to minimize said residual noise signal.
 - **15**. (Canceled)
- **16**. (Previously Presented) A method of actively controlling noise, the method comprising:

perceiving a noise and generating a noise signal;

perceiving a phase of said noise signal and generating a phase signal, said phase perceiving step comprising transforming said noise signal, full-wave rectifying said transformed noise signal, converting said fully rectified signal, and bandpass filtering said converted signal; and

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generating a noise control signal based on a residual noise signal and an error variation signal.

17-18. (Canceled)